

Mixed fatty acid ester was compounded as follows.

Diglycerol 100g, 427g of behenic acid, and 340g of oleic acid were put into the reaction container, it reacted on the same conditions as an example 1, and 823g of mixed fatty acid ester was obtained.

[0016]

<The example 2 of a comparison>

Diglycerol 100g and 679g of oleic acid were put into the reaction container, it reacted on the same conditions as an example 1, and 736g of fatty acid ester was obtained.

[0017]

(Water holding trial)

The percentage showed the amount of the water which trickled water gradually, was made to **** until it repelled water, and was ****(ed) to the sample (10g), agitating 1g of samples, and vaseline 9g obtained in the example and the example of a comparison. A measurement result is shown in Table 1. The mixed fatty acid ester of examples 1-2 has a high percentage of water hold about 200% compared with lanolin, and it turns out that it excels in water holding. On the other hand, the esterification object of the examples 1-2 of a comparison was an inadequate (worse than lanolin) result in the field of a percentage of water hold.

[0018]

[Table 1]

表1

試料	抱水率(%)
実施例1の混合脂肪酸エステル	410
実施例2の混合脂肪酸エステル	400
比較例1の混合脂肪酸エステル	120
比較例2の脂肪酸エステル	140
ラノリン	190

[0019]

(Preparation of cosmetics)

The mixed fatty acid ester of said example and the example of a comparison was blended, and various cosmetics were prepared. In addition, the preparation approach of the rate of a compounding ratio and cosmetics was described in the following combination examples 1-4 and the examples 1-2 of a combination comparison. Moreover, "it is admiration gently", there "there is no feeling of stickiness", etc. performed organic-functions evaluation about usability by 20 healthy person panelists. In accordance with the following absolute criteria, five steps of evaluations were evaluated and they judged the average of a score using the four-step criterion.

- Absolute criteria - four-step criterion

(Score) : (evaluation) (average mark of a score) : (judgment)

Five points: Very good 4.5 or more points : O

Four points: Good 4.0 or more points [less than 4.5]: O

Three points : usually 3.0 or more points [less than 4.0]: **

Two points: He is a defect a little. Less than 3.0 points : x

One point: Defect

It combined, and each sample was visually passed through the appearance after one-month neglect on the following criteria to the 50-degree C thermostat, and the Tokiyasu quality was evaluated.

- Criteria

With no change of state : O

: with changes of state, such as separation, -- x

The result of these organic-functions evaluation and stability evaluation with the passage of time is shown in

Table 2. The cosmetics of the combination examples 1-4 were excellent in usability and stability with the passage of time, such as "it is admiration gently" and there "there being no feeling of stickiness." On the other hand, the cosmetics of the examples 1-2 of a combination comparison were not what is satisfied in usability and stability with the passage of time.

[0020]

[Table 2]

表2

試料	官能評価	経時安定性
配合実施例1	◎	○
配合実施例2	◎	○
配合実施例3	○	○
配合実施例4	◎	○
配合比較例1	×	×
配合比較例2	△	×

[0021]

(1) Combination example 1 Emollient cream

A phase (% of the weight)

Mixed fatty acid ester of an example 1 5.00

Squalane 7.50

Mono-myristic-acid decaglyceryl 2.00

Stearin acid 3.50

Glyceryl monostearate 2.00

Tree 2 ethylhexanoic-acid glyceryl 5.00

B phase

Glycerol 7.00

10%-potassium-hydroxide water solution 1.00

Purified water 67.00

The A phase was dissolved at 80 degrees C, it adds gradually and the B phase warmed at 80 degrees C at this was emulsified. After emulsification, it cooled to 35 degrees C and the emollient cream was obtained.

[0022]

(2) Combination example 2 Mill key lotion

A phase (% of the weight)

Mixed fatty acid ester of an example 2 2.50

Mono-oleic acid decaglyceryl 1.00

B phase

1%-carboxyvinyl polymer 5.00

10%-potassium-hydroxide water solution 1.00

1, 3-butylene glycol 5.00

Glycerol 2.00

Purified water 83.50

The A phase was dissolved at 80 degrees C, it adds gradually and the B phase warmed at 80 degrees C at this was emulsified. After emulsification, it cooled to 35 degrees C and the mill key lotion was obtained.

[0023]

(3) Combination example 3 Lip stick

A phase (% of the weight)

Mixed fatty acid ester of an example 1 20.00

Ceresin 23.50

Castor oil 27.00

Liquid paraffin 15.00

Carnauba wax 7.00

Candelilla low 5.00

B phase

Titanium oxide 2.00

Red system coloring matter 0.50

After warming an A phase at 80 degrees C and carrying out the homogeneity dissolution, it cools and scours to homogeneity by the roll mill. The B phase was added to this, after degassing, it slushed into the mold, it quenched and the lip stick was obtained.

[0024]

(4) Combination example 4 Ointment base

A phase (% of the weight)

Mixed fatty acid ester of an example 2 10.00

Liquid paraffin 13.00

Vaseline 10.00

Cetyl alcohol 10.00

Mono-isostearic acid decaglyceryl 3.00

B phase

Sodium lauryl sulfate 1.00

Purified water 53.00

The A phase was dissolved at 80 degrees C, it adds gradually and the B phase warmed at 80 degrees C at this was emulsified. After emulsification, it cooled to 35 degrees C and the ointment base was obtained.

[0025]

(1) Example 1 of a combination comparison Emollient cream

A phase (% of the weight)

Mixed fatty acid ester of the example 1 of a comparison 5.00

Squalane 7.50

Mono-myristic-acid decaglyceryl 2.00

Stearin acid 3.50

Glyceryl monostearate 2.00

Tree 2 ethylhexanoic-acid glyceryl 5.00

B phase

Glycerol 7.00

10%-potassium-hydroxide water solution 1.00

Purified water 67.00

The A phase was dissolved at 80 degrees C, it adds gradually and the B phase warmed at 80 degrees C at this was emulsified. After emulsification, it cooled to 35 degrees C and the emollient cream was obtained.

[0026]

(2) Example 2 of a combination comparison Mill key lotion

A phase (% of the weight)

Fatty acid ester of the example 2 of a comparison 2.50

Mono-oleic acid decaglyceryl 1.00

B phase

1%-carboxyvinyl polymer 5.00

10%-potassium-hydroxide water solution 1.00

1, 3-butylene glycol 5.00

Glycerol 2.00

Purified water 83.50

The A phase was dissolved at 80 degrees C, it adds gradually and the B phase warmed at 80 degrees C at this was emulsified. After emulsification, it cooled to 35 degrees C and the mill key lotion was obtained.

[Availability on industry]

[0027]

By blending with cosmetics the mixed fatty acid ester which has water holding [which was excellent in this

invention], admiration can obtain good cosmetics gently. Moreover, gently, admiration (emollient nature) will be able to become good and can use the cosmetics which blend the mixed fatty acid ester of this invention for broad applications, such as a cream, a mill key lotion, a lip stick, and ointment.

[Translation done.]